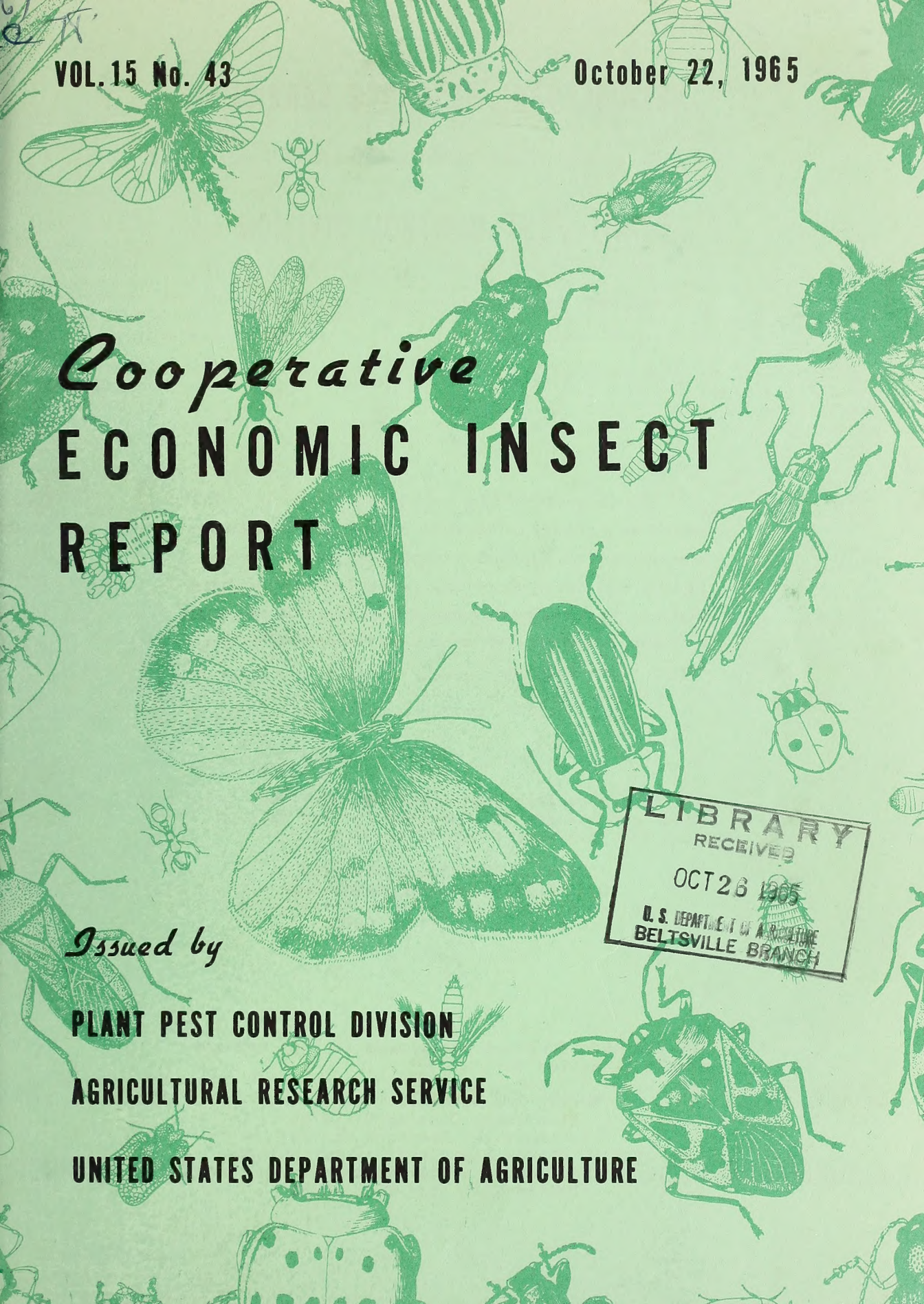


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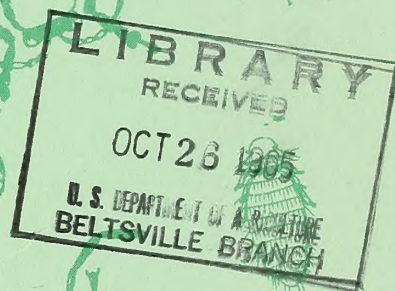
October 22, 1965

Cooperative **ECONOMIC INSECT REPORT**

Issued by

**PLANT PEST CONTROL DIVISION
AGRICULTURAL RESEARCH SERVICE**

UNITED STATES DEPARTMENT OF AGRICULTURE



AGRICULTURAL RESEARCH SERVICE

PLANT PEST CONTROL DIVISION

SURVEY AND DETECTION OPERATIONS

The Cooperative Economic Insect Report is issued weekly as a service to American Agriculture. Its contents are compiled from information supplied by cooperating State, Federal, and industrial entomologists and other agricultural workers. In releasing this material the Division serves as a clearinghouse and does not assume responsibility for accuracy of the material.

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COOPERATIVE ECONOMIC INSECT REPORT

HIGHLIGHTS

EUROPEAN CORN BORER extremely heavy and damaging to late-planted corn in northern Alabama. SOUTHERN CORN ROOTWORM damaged rye at several locations on Eastern Shore of Virginia, and severe lodging by WESTERN CORN ROOTWORM observed in Custer County, Nebraska. (pp. 1203,1204). SPOTTED ALFALFA APHID remains high on alfalfa in southwestern Arizona; sexual forms found for second year in Wyoming. (p. 1205). ALFALFA CATERPILLAR increasing on alfalfa in Dome Valley area, Arizona, (p. 1206), and adults abundant in most alfalfa in Lea County, New Mexico, (p. 1214).

CABBAGE LOOPER, a problem on vegetable crops on Virginia's Eastern Shore during late September, now appears on decline; increasing populations continue to damage lettuce in Arizona. (p.1207). ZEBRA CATERPILLAR and VARIEGATED CUTWORM extremely damaging to sugar beets in Washington; controls applied to reduce economic losses of sugar content. (p. 1208).

PINK BOLLWORM ranged light to exceptionally heavy in cotton in New Mexico; approximately 45 percent of green bolls infested in more heavily infested fields. Moths taken for first time in Yuma County, Arizona. (p. 1209). MOSQUITOES heavy and annoying in some States. (pp. 1211, 1212).

DETECTION

New county records include: SOUTHWESTERN CORN BORER (Zeadiatraea grandiosella) in Dallas and Madison Counties, Alabama, (p. 1203); PINK BOLLWORM (Pectinophora gossypiella) moths in Yuma County, Arizona, (p. 1209); ASIATIC OAK WEEVIL (Cyrtepestomus castaneus) in Pulaski County, Missouri, (p. 1210); FACE FLY (Musca autumnalis) in Tooele County, Utah, (p. 1212); and GIANT HORNET (Vespa crabro germana) in Brown and Monroe Counties, Indiana, (p. 1214).

CORRECTIONS and ADDITIONAL NOTES

See page 1214.

SPECIAL REPORTS

Status of the Screw-worm in the Southwest. (p. 1216).

WEATHER BUREAU'S 30-DAY OUTLOOK

MID-OCTOBER TO MID-NOVEMBER 1965

The Weather Bureau's 30-day outlook for the period from mid-October to mid-November calls for temperatures to average below seasonal normals over the eastern quarter of the Nation and over the South westward to the Southern Plains. Above normal averages are anticipated over the Plateau Region, the Northern and Central Plains and the upper Mississippi Valley. Elsewhere near normal temperatures are in prospect. Rainfall is expected to exceed normal over the Gulf Coast Region and East Coast States. Subnormal amounts are called for from California eastward through the Central Plateau, the Central Plains, and the middle Mississippi Valley. Elsewhere near normal rainfall is indicated.

Weather forecast given here is based on the official 30-day "Resume and Outlook" published twice a month by the Weather Bureau. You can subscribe through the Superintendent of Documents, Washington, D. C. 20250. Price \$5.00 a year.

WEATHER OF THE WEEK ENDING OCTOBER 18

HIGHLIGHTS: (1) Mild and sunny, Central and East. (2) Record rains Miami area. (3) Some heavy snows in western mountains.

TEMPERATURE: Weekly temperatures were near or slightly above normal in most sections with the warmest in the Central and South. Most days were sunny with pleasant dry weather. Temperatures had a rising trend in the East but fell late in the week in most Western areas. Highs in the 80's reached north to Wisconsin and Pennsylvania.

FREEZING: While the general freeze line showed no general advance, there were hard local freezes in parts of eastern Kansas, southwestern Missouri, and northeastern Oklahoma.

PRECIPITATION: Rainfall was very unevenly distributed over the Country and mostly of short duration. The exception was the Pacific Northwest where early season rains occurred almost daily. Also an upper level Low caused cloudiness and rain in the Southwest late in the week. There was little or no rain in the Northern Plains and in much of the South and Southeast. The Great Lakes and northern Appalachian areas were moderately wet and an uneven band of heavy showers extended from Utah eastward to St. Louis, Missouri. New England received light to moderate amounts while a narrow strip of coastal Florida north of Miami received record amounts.

SNOWFALL: Up to 2 inches of snow was reported from northern Michigan. In the West, several inches of snow covered the higher mountains. Northern Arizona received 8 inches and in New Mexico there was even 10 inches at Santa Fe. (Summary supplied by U. S. Weather Bureau).

CEREAL AND FORAGE INSECTS

CORN EARWORM (Heliothis zea) - NEVADA - Larvae and damage heavy on corn ears in northern Dixie Valley of Pershing County. (Ferraro, Martinelli). NEBRASKA - Larvae found feeding in late field corn in Custer County. (Rhine). ARKANSAS - Remains present in alfalfa in northwest, but numbers low; ranged 5-10 per 100 sweeps. (Ark. Ins. Sur.). ALABAMA - Of 28 larvae collected from 2 heavily infested fields of soybeans in Covington County, 9 determined as H. zea by Dr. Cunningham. (Pike). OHIO - Severe in field of corn observed near Sandy Springs, Adams County; infested all of 20 ears checked. Corn late in reaching maturity; more advanced field corn in vicinity not infested. (Rose).

FALL ARMYWORM (Spodoptera frugiperda) - VIRGINIA - Outbreak occurring on rye throughout Eastern Shore; controls necessary. (Hofmaster, Oct. 7). KANSAS - None found in corn checked in northern tier of counties east of Jewell County. (Simpson). TEXAS - Light to moderate locally in fields of small grain in Kaufman County. (Turney).

SOUTHWESTERN CORN BORER (Zeadiatraea grandiosella) - ILLINOIS - None found during survey conducted September 28-29 in Randolph and Jackson Counties. Survey conducted October 11-14 revealed no evidence of this pest in Jackson and Saline Counties, nor in single field checked in Pope County. Infestations in known infested counties, as follows: Alexander - infested 100 percent of fields checked; 2-18 (average 9.45) percent of corn plants infested, which means that with mechanical pickers 9.45 percent of corn in county will be lost to this pest. Pulaski - 83 percent of fields infested with 0-2 (average 1.33) percent of plants infested; Massac - 80 percent of fields infested with 0-1 (average 0.8) percent of plants infested. About 50 percent of larvae in area in white (winter) form and 50 percent in spotted (summer) form. Pest first found in State at Urbandale, Alexander County, in 1963. (Ill. Ins. Sur.). ALABAMA - Survey to determine eastward movement complete, except in Lowndes County. Light infestations observed in Dallas and Madison Counties. These are new county records. No infestations observed in Mobile, Baldwin, Monroe, Wilcox, Autauga, Chilton, Coosa, Talladega, St. Clair, Etowah, Marshall and Jackson Counties. Movement apparently somewhat slower than during past few years. (Davis, Robertson et al.). OKLAHOMA - Larvae in white (winter) form in dead cornstalks checked in Delaware County; averaged 1 per 10 stalks. (Okla. Coop. Sur.). TEXAS - Heavy, local damage to corn observed in research test plots at Chillicothe in Hardeman County and at Plaineview in Hale County. (Chada).

SOUTHERN CORNSTALK BORER (Diatraea crambidoides) - ALABAMA - Numerous larvae taken during survey for Zeadiatraea grandiosella (southwestern corn borer) in Madison, Marshall and Etowah Counties. Larvae entering diapause in corn roots. (Davis, Robertson et al.).

EUROPEAN CORN BORER (Ostrinia nubilalis) - MINNESOTA - Preliminary results of fall abundance survey indicate drop in populations in nearly all areas surveyed. Generally, first generation was moderate and second generation almost completely lacking in most areas of State. (Minn. Ins. Rpt.). NORTH DAKOTA - Results of 1965 fall survey show 64.53 percent of plants infested compared with 61.12 percent in 1964 and 95.31 percent in 1963; borers per infested plant averaged 1.08, compared with 1.61 in 1964 and 3.99 in 1963; borers per 100 plants averaged 84.07, compared with 125.45 in 1964 and 391.49 in 1963. (Frye). SOUTH DAKOTA - Fall abundance survey completed in Beadle, Deuel, Hamlin and Kingsbury Counties. Larval populations low in Beadle County and most of Kingsbury County; infestation 100 percent in field sampled west of Arlington, Kingsbury County, where larvae averaged 550 per 100 corn plants. Little damage to corn crop evident in Hamlin County where sampled fields averaged 200 larvae per 100 stalks; however, considerable damage noted in 3 of 4 fields sampled in Deuel County. Majority of larvae now in third stage. (Jones). ALABAMA - Extremely heavy infestations and damage observed in many fields of late-planted corn in northern area, especially in

Jackson, Madison, Marshall and Etowah Counties. Older corn appears not to be damaged. No damage to corn observed in Talladega, Coosa and Autauga Counties. (Davis, Robertson).

CORN ROOTWORMS (Diabrotica spp.) - NEBRASKA - Severe lodging due to D. virgifera (western corn rootworm) observed in field of corn in Custer County. Adults of D. longicornis (northern corn rootworm) still feeding on corn silks in some areas of this county. (Rhine). SOUTH DAKOTA - D. virgifera present in corn in Yankton, Charles Mix and Hutchinson Counties. Majority of adults observed in or near groups of cobs on ground. (Jones). OHIO - D. undecimpunctata howardi (southern corn rootworm) adults common in alfalfa in south central and southwestern counties; 10 per 25 sweeps taken in field in Ross County and 4-6 per 25 sweeps collected in Jackson, Scioto and Brown Counties. (Rose). VIRGINIA - Damage to rye by D. undecimpunctata howardi observed in several locations near Painter, Accomack County. Roots and underground portions of stems attacked. Injury not yet widespread and appears confined to localized areas. (Hofmaster, Oct. 7).

RICE WEEVIL (Sitophilus oryzae) - ALABAMA - Absence of this pest in ears of corn in fields from St. Clair County northward to State line most noticeable. This serious pest of stored grains in central and southern parts of State not observed in any fields. (McQueen).

CORN LEAF APHID (Rhopalosiphum maidis) - OKLAHOMA - Winged adults occasionally noted in wheat checked in Nowata County. (Okla. Coop. Sur.).

FIELD CRICKETS (Gryllus spp.) - NORTH DAKOTA - Trace numbers found during survey of swathed and standing small grains in northeast area. Same situation observed in flax and alfalfa. No unusual or late season insect problems encountered during survey. Wet conditions appear to be keeping cricket populations at low level. (Frye, Oct. 8).

HESSIAN FLY (Mayetiola destructor) - KANSAS - Larvae and flaxseed stage present in trace amounts (0.5-1 percent) in Cloud, Republic and Washington Counties. Found in volunteer wheat only; planted wheat free of infestation. Many small larvae found in volunteer wheat in Dickinson County. Heavy infestations found in volunteer wheat in Rooks County. (Somsen).

WHEAT CURL MITE (Aceria tulipae) - KANSAS - Scattered infestations found in volunteer wheat in Clay, Cloud, Republic and Washington Counties. Streak mosaic symptoms not yet apparent. In 27 collections of volunteer wheat from Meade County, infestation heavy in 9 collections, with mites moving about on plants; trace infestations found in 5 collections. Other samples badly wilted and examination for mites very difficult. (Somsen, Harris).

GRASSHOPPERS - SOUTH DAKOTA - Melanoplus femurrubrum (red-legged grasshopper), M. bivittatus (two-striped grasshopper) and M. differentialis (differential grasshopper) active in field borders of corn and alfalfa and at road edges in Deuel, Hamlin, Kingsbury, Beadle, Clark, Charles Mix, Hutchinson and Yankton Counties. Adults ranged 10-15 per square yard in most areas checked. (Jones). WISCONSIN - Most females of M. femurrubrum and M. differentialis examined contained eggs. M. femurrubrum very common along roadsides; neither species common in crops. (Wis. Ins. Sur.). OHIO - Survey indicates grasshopper distribution and populations declined in 1965 compared with 1964. Counts averaged less than 1 per square yard throughout most of northern part of State. Populations highest in south and southeast sections, where counts ranged 3-10 per square yard. (Warnke). OKLAHOMA - Grasshoppers reported moderate in small grain and legumes in Comanche County. (Okla. Coop. Sur.). COLORADO - M. femurrubrum numerous on desiccating kochia on rangeland in Larimer County. (Wellso). UTAH - Some grasshoppers still active in northern localities; mostly M. sanguinipes (migratory grasshopper). (Knowlton).

BLACK CUTWORM (*Agrotis ipsilon*) - TEXAS - Feeding on small plot of Bermuda grass in Nacogdoches County. (Caskey).

BILLBUGS (*Sphenophorus* spp.) - WASHINGTON - *S. cicatristriatus* causing scattered damage to lawn in Kennewick, Benton County. This pest has subsided considerably since first recorded in State in 1963. (Wash. Coop. Rpt.). MARYLAND - Larvae of *Sphenophorus* sp. caused heavy damage to zoysia grass in lawn in Riverdale, Prince Georges County. (U. Md., Ent. Dept.).

TEN-LINED JUNE BEETLE (*Polyphylla decemlineata*) - WASHINGTON - First, second and third-season larvae damaging 40 acres in irrigated orchard grass pastures near Quincy, Grant County. (Wash. Coop. Rpt.).

A SPITTLEBUG (*Prosapia bicincta*) - ALABAMA - Heavy in Coastal Bermuda grass along Interstate Highway 65 in Butler, Conecuh and Escambia Counties; controls being applied. (Lemons, Daniel, Smith).

A THRIPS (*Chirothrips* sp.) - ARIZONA - Heavy infestations detected on Bermuda grass in Wellton area, Yuma County. (Ariz. Coop. Sur.).

A SPIDER MITE (*Tetranychus* sp.) - ARIZONA - Continues to damage fields of Bermuda grass in Yuma County. Some controls necessary. (Ariz. Coop. Sur.).

PEA APHID (*Acyrtosiphon pisum*) - WASHINGTON - All stages, including alates, present on forage and seed alfalfa as follows: 12 per 100 sweeps at Mabton, Benton County; 10 per sweep at Pasco, Benton County; 20 per sweep at Walla Walla, Walla Walla County. (Halfhill). UTAH - Populations in alfalfa low to moderate in fields checked in Box Elder, Weber, Salt Lake and Tooele Counties. (Knowlton). WYOMING - Adults and nymphs ranged 24-60 per 100 sweeps in alfalfa in Goshen and Laramie Counties. (Marks). KANSAS - Averaged 60 per 25 sweeps in alfalfa in Nemaha, Marshall, Washington and Republic Counties. (Simpson). ARKANSAS - Counts in alfalfa remain zero to very low in northwest area. Dry weather may be factor. (Ark. Ins. Sur.). WISCONSIN - Populations relatively high in many fields of alfalfa. Males common; oviparous forms present. Nymphs being produced by apterous and alate forms. (Wis. Ins. Sur.). OHIO - Populations in alfalfa declining; however, averaged approximately 10 per sweep in one Scioto County field. Numbers insignificant in other fields checked. *Nabis ferus* (a damsel bug) most common predator observed; averaged nearly 1 per sweep in one field. (Rose).

SPOTTED ALFALFA APHID (*Therioaphis maculata*) - ARIZONA - Counts remain high in alfalfa in Yuma Valley and in Chandler-Gilbert area of Maricopa County; averaged 4 per trifoliate leaf in infested fields. (Ariz. Coop. Sur.). NEVADA - Heavy on variety of seed alfalfa in northern Dixie Valley, Pershing County; large amounts of honeydew noted on ground. (Ferraro, Matrinelli). UTAH - Present in Box Elder, Weber and Tooele Counties for first time this season; populations low, however. (Knowlton). WYOMING - Sexual forms found in Goshen County for second year. Adults and nymphs ranged 46-100 per 100 sweeps in alfalfa in Goshen and Laramie Counties. (Manglitz, Marks). IDAHO - Light on Elmore County alfalfa. (Edwards). OKLAHOMA - Very light in alfalfa checked in northeast area; averaged 2 per 10 sweeps in Washington County. (Okla. Coop. Sur.). ARKANSAS - None found in alfalfa surveyed in northwest area. (Ark. Ins. Sur.). WISCONSIN - Populations remain very low in alfalfa; oviparous forms appearing. Populations too low to find males, although some undoubtedly present. (Wis. Ins. Sur.). OHIO - Two, winged adults taken in 25 sweeps in field of alfalfa near Manchester, Adams County. This is second southwestern county where species taken this season. Reported from Butler County in CEIR 15(42): 1185. (Rose).

TARNISHED PLANT BUG (*Lygus lineolaris*) - OHIO - Averaged over 1 per sweep in field of alfalfa in Ross County; averaged 5 and 8 per 25 sweeps in Adams and Brown Counties, respectively. (Rose).

LYGUS BUGS (Lygus spp.) - UTAH - Populations now light in alfalfa in Erda-Tooele area of Tooele County; nearly all adults. (Knowlton). WYOMING - Adults averaged 26 per 100 sweeps in alfalfa in Goshen and Laramie Counties. (Marks).

STINK BUGS - MISSOURI - Acrosternum hilare (green stink bug) reported heavy in some Jasper County soybeans; no counts made. (Jaynes). ALABAMA - Adults and nymphs of Nezara viridula (southern green stink bug) heavy and localized on pods of late soybeans in Grand Bay and St. Elmo areas of Mobile County. (Dillier, Seibels). SOUTH CAROLINA - Heavy buildup of unspecified species noted in Jasper County soybeans. (Tate, Nettles, Oct. 11).

POTATO LEAFHOPPER (Empoasca fabae) - WISCONSIN - Nymphs still present in some alfalfa; adults and nymphs averaged 6 per sweep in one field. (Wis. Ins. Sur.).

THREE-CORNERED ALFALFA HOPPER (Spissistilus festinus) - ARKANSAS - Continues active in northwest area alfalfa, but numbers low. (Ark. Ins. Sur.).

ALFALFA CATERPILLAR (Colias eurytheme) - ARIZONA - Larval counts increasing in alfalfa in Dome Valley area, Yuma County, and Buckeye and Chandler areas of Maricopa County. Decreases observed in other alfalfa-growing areas. (Ariz. Coop. Sur.). ARKANSAS - Larval numbers low in alfalfa in northwest; range 5-10 per 100 sweeps. Adult numbers, high 2 weeks previously, declined from very low to zero. (Ark. Ins. Sur.).

VELVETBEAN CATERPILLAR (Anticarsia gemmatilis) - SOUTH CAROLINA - Unusually damaging to late-planted soybeans in Jasper County. (Tate, Nettles, Oct. 11.). ALABAMA - Of 28 larvae collected from 2 heavily infested fields of soybeans in Covington County, 3 determined this species by Dr. Cunningham. (Pike).

GREEN CLOVERWORM (Plathypena scabra) - MICHIGAN - Eight adults taken in black-light trap in Livingston County on October 14. This first night, recently, temperatures favorable for moth flight. (Newman). ARKANSAS - Numbers dropped in northwest area alfalfa; ranged 10-15 per 100 sweeps. (Ark. Ins. Sur.). ALABAMA - Of 28 larvae collected from 2 heavily infested fields of soybeans in Covington County, 3 determined this species by Dr. Cunningham. (Pike).

ALFALFA WEEVIL (Hypera postica) - OHIO - Surveys of alfalfa in south central and southwest counties indicated variable populations. Largest number of adults observed in Jackson County field; averaged 1 per 2 sweeps. No larvae collected in Jackson and Scioto Counties; averaged 1 larva per 5 sweeps in Brown County. Insignificant adult numbers taken in Adams and Scioto Counties. (Rose). In Columbiana County, 2 adults and 2 larvae taken in 10 double sweeps during day and 40 adults and 2 larvae in same number of sweeps at night. (Niemczyk, Flessel).

CLOVER ROOT CURCULIO (Sitona hispidula) - MISSOURI - Mating and egg laying still occurring in Boone County alfalfa. (Crow).

FRUIT INSECTS

WALNUT CATERPILLAR (Datana integerrima) - OKLAHOMA - Causing moderate damage to native black walnut and Carpathian walnut in Major County. (Okla. Coop. Sur.).

HICKORY SHUCKWORM (Laspeyresia caryana) - OKLAHOMA - Reported moderate on pecans in Mayes County. (Okla. Coop. Sur.).

PECAN WEEVIL (Curculio caryae) - OKLAHOMA - Infestations light on pecans in Mayes County. (Okla. Coop. Sur.).

A SPIDER MITE (Eotetranychus hicoriae) - FLORIDA - Adults caused severe damage to pecan at Plant City, Hillsborough County. (Custead, Oct. 1).

Quarterly Insect and Mite Outlook in Florida - October through December - This outlook is based on the assumption that weather beyond the period of the current U. S. Weather Bureau's 30-day outlook will be normal. Therefore, the forecast given below cannot be viewed with the same degree of confidence as those in the "Citrus Insect and Disease Summary" usually released twice each month.

CITRUS RUST MITE (Phyllocoptruta oleivora) increase to above average level expected in most districts during October and November with decrease in December. Important infestations will occur in 50-60 percent of groves. Gradual increase of CITRUS RED MITE (Panonychus citri) and TEXAS CITRUS MITE (Eutetranychus banksi) will occur through November then decline. Populations not expected to exceed normal for fall months. Although only scattered groves will have high populations of one of these species, 20-30 percent of groves will have single or combined populations in moderate to heavy range. GLOVER SCALE (Lepidosaphes gloverii) and YELLOW SCALE (Aonidiella citrina) will increase gradually in October and November to above average abundance. Statewide population expected to hold at moderate level in December. Only scattered groves will have damaging infestations. CHAFF SCALE (Parlatoria pergandii) will increase but expected to be less prevalent than normal. (W. A. Simanton, (Citrus Expt. Sta., Lake Alfred)).

POTATO LEAFHOPPER (Empoasca fabae) - MICHIGAN - Adults remain active on blueberries in southwest section. (Burger).

A LEAF BLOTCH MINER (Gracilaria vacciniella) - MICHIGAN - Larvae still active on blueberries in southwest section after heavy frosts. (Newman, Burger).

GREEN PEACH APHID (Myzus persicae) - COLORADO - Fall migrants returning to peach orchards on Western Slope. Some colonies of laying forms present, with 2-10 young per colony. (Bulla).

APPLE GRAIN APHID (Rhopalosiphum fitchii) - WISCONSIN - Colonies reappearing on overwintering apple host. (Wis. Ins. Sur.).

WOOLLY APPLE APHID (Eriosoma lanigerum) - COLORADO - Noted in Olathe area of Delta County and in some orchards in Mesa County. (Bulla).

PEAR PSYLLA (Psylla pyricola) - WASHINGTON - Postharvest infestations heavy in several pear orchards in Yakima area; all nymphal stages and adults present. (Wash. Coop. Rpt.).

APPLE MAGGOT (Rhagoletis pomonella) - NORTH DAKOTA - Damage to apples evident in fruit received from Valley City, Barnes County, and from other areas of State. (Dogger).

SAN JOSE SCALE (Aspidiotus perniciosus) - VIRGINIA - Infesting apple trees in commercial orchard in Rappahannock County. (Hill).

FORBES SCALE (Aspidiotus forbesi) - VIRGINIA - This species and Chionaspis furfura (scurfy scale) very light and scattered in apple orchards in northern portion of State. C. furfura males noted on cherry trees at a Frederick County location. (Hill).

TRUCK CROP INSECTS

CABBAGE LOOPER (Trichoplusia ni) VIRGINIA - Continues real problem on Eastern Shore. Very dry and hot weather in late September most unfavorable for insecticidal or virus action. Problem appears on decline at present. (Hofmaster, Oct. 7). ALABAMA - Light to heavy larval infestations of this species and Pieris rapae (imported cabbageworm) occurring on collards in home gardens in central and northern counties. (Davis, Robertson et al). ARIZONA - Increasing populations continue to damage lettuce in Maricopa, Pinal and Yuma Counties. Control efforts increased. (Ariz. Coop. Sur.). NEW MEXICO - Heavy in field

of cabbage east of Lovington, Lea County. Field also heavily infested with aphids, probably Brevicoryne brassicae (cabbage aphid). (Nielsen).

TOMATO FRUITWORM (Heliothis zea) - ARIZONA - Light infestations found on lettuce in areas of Maricopa and Pinal Counties. Controls required in few fields. (Ariz. Coop. Sur.). SOUTH CAROLINA - Several severe infestations observed on tomatoes in greenhouses. (Smith, Oct. 12).

BEET ARMYWORM (Spodoptera exigua) - ARIZONA - Infestations on lettuce continue to require controls in areas of Yuma and Maricopa Counties. (Ariz. Coop. Sur.).

ZEBRA CATERPILLAR (Ceramica picta) - WASHINGTON - Larvae of this pest and Peridroma saucia (variegated cutworm) abundant and extremely damaging to sugar beets in Kennewick (Benton County) and Quincy (Grant County) areas, respectively; controls applied because economic losses of sugar content would occur in 2-4 weeks remaining to harvest. (Wash. Coop. Rpt.).

HAWAIIAN BEET WEBWORM (Hymenia recurvalis) - VIRGINIA - Occasional larva noted on spinach on Eastern Shore. Not too common in this area; more so on Norfolk side of Chesapeake Bay. (Hofmaster, Oct. 7).

SWEETPOTATO FLEA BEETLE (Chaetocnema confinis) - MARYLAND - Adults abundant and causing conspicuous injury to foliage of sweetpotato in Wicomico County. Larval injury to harvested roots relatively light. (U. Md., Ent. Dept.).

DESERT CORN FLEA BEETLE (Chaetocnema ectypa) - ARIZONA - Adults caused light damage to vegetables in scattered fields in Peoria area, Maricopa County. (Ariz. Coop. Sur.).

HARLEQUIN BUG (Murgantia histrionica) - VIRGINIA - Found on most truck crops grown on Eastern Shore but generally not in damaging numbers. (Hofmaster, Oct. 7). ALABAMA - Light on turnips and collards in few home gardens in Coosa and Morgan Counties. (McQueen).

GARDEN SYMPHYLAN (Scutigerella immaculata) - IDAHO - Found infesting additional field of sugar beets in Canyon County. (Homan, Hall).

COTTON INSECTS

BOLLWORMS (Heliothis spp., et al.) - ALABAMA - Plentiful in larger squares and late cotton bolls. (McQueen). NEW MEXICO - Bolls damaged by H. zea noted in many fields of cotton checked in Luna, Eddy and Lea Counties. (N. M. Coop. Rpt.). ARIZONA - Moderate H. zea (bollworm) populations continue to damage top crop in Pinal, Pima and Maricopa Counties and in Texas Hill area of Yuma County. (Ariz. Coop. Sur.). CALIFORNIA - Present in most cotton in Imperial County; range from lows of 1-4 larvae per 100 plants up to 50 per 100 plants in few fields. (Campbell, Oct. 6). Remain prevalent in many areas of Kern County; however, populations should be of no or little concern as most of crop is reaching full growth. (Black, Oct. 6). Continue evident in some cotton in San Joaquin Valley; although counts range as high as 125-150 larvae per 100 plants, bolls generally so advanced no threat to crop exists. (Leigh, Oct. 8).

SALT-MARSH CATERPILLAR (Estigmene acrea) - ARIZONA - Populations remain constant in cotton areas of Yuma, Maricopa, Pinal and Pima Counties. Decrease in numbers observed in Graham County cotton. (Ariz. Coop. Sur.).

CABBAGE LOOPER (Trichoplusia ni) - CALIFORNIA - Evident in some cotton in San Joaquin Valley; virus disease providing effective control in several instances. (Leigh, Oct. 8).

COTTON LEAF PERFORATOR (Bucculatrix thurberiella) - ARIZONA - Populations increasing on cotton in most areas of Yuma County. Some scattered infestations continue to increase in Maricopa and Pinal Counties. (Ariz. Coop. Sur.). CALIFORNIA - Populations generally low in Imperial County cotton, although treatment required in few fields. (Campbell, Oct. 6).

PINK BOLLWORM (Pectinophora gossypiella) - ARIZONA - Twelve moths taken in sex-lure traps in Yuma County. This is a new county record. Moths taken in Hyder, Aztec, Texas Hill and Roll areas. No larvae found in gin trash or field inspections at this time in Yuma County. New infestations continue to be found in Graham, Pinal and Maricopa Counties. (Ariz. Coop. Sur.). NEW MEXICO - Ranged light to exceptionally heavy in cotton. Few fields damaged to extent growers probably will not harvest. Many growers becoming very concerned. (Kloepfer, Harrison). Damage ranged zero to heavy in Luna County. In one of most heavily infested fields, approximately 45 percent of green bolls infested. (Hare). TEXAS - Moderate, local infestations observed in Brazos County cotton. (Texas Coop. Rpt., Barrom).

BOLL WEEVIL (Anthonomus grandis) - ALABAMA - Larvae, pupae and adults rather heavy in cotton squares in top bolls in Madison, Jackson and other northern counties. Harvest appears later than normal; stalk destruction not observed in any field from northern part of State to as far south as Autauga County. (McQueen). TEXAS - Heavy, widespread populations reported in cotton in Stonewall County. Light to heavy, widespread populations present over widespread area of King and Cottle Counties; populations locally moderate in Brazos County cotton. (Texas Coop. Rpt.).

COTTON APHID (Aphis gossypii) - ALABAMA - Heavy in most fields of cotton observed in northern counties; however, causing no damage. (McQueen). CALIFORNIA - Minor infestations noted in few fields in Imperial County. (Campbell, Oct. 6). Extremely abundant in some cotton in Kern County; honeydew heavy on foliage and lint in many fields. (Black, Oct. 6). Remains evident on cotton in many fields in San Joaquin Valley; honeydew on fiber resulted in growth of sooty mold and blackening of lint in few instances. Parasites abundant in most fields and controls not necessary. (Leigh, Oct. 8).

STINK BUGS - CALIFORNIA - Occasional heavy infestation in cotton, with damage to late-set bolls, noted in Imperial County. (Campbell, Oct. 6). Euschistus conspersus evident in some fields of cotton adjacent to seed alfalfa in San Joaquin Valley. Boll feeding evident only in very few instances. (Leigh, Oct. 8). NEW MEXICO - Adults, mostly Chlorochroa ligata (conchuela), occasionally noted in cotton near Hermanas, Luna County. (Hare).

TARNISHED PLANT BUG (Lygus lineolaris) - ALABAMA - Plentiful in cotton throughout northern area; feeding on squares. (McQueen).

LYGUS BUGS (Lygus spp.) - NEW MEXICO - Populations range from zero to very light in all cotton inspected in Luna County. (Hare). Green lacewings (Chrysopa spp.) and lady beetles very light in Luna County fields. (N. M. Coop. Rpt.).

SPIDER MITES - ALABAMA - Heavy in most fields of cotton checked in northern part of State, but apparently causing no damage. (McQueen). CALIFORNIA - Populations generally light in few fields of cotton in Imperial County. (Campbell, Oct. 6).

FOREST, ORNAMENTAL AND SHADE TREE INSECTS

BLACK TURPENTINE BEETLE (Dendroctonus terebrans) - ALABAMA - Damage isolated groups of injured pines around building sites throughout much of State; less active than during midsummer. (McQueen). MISSOURI - Infested 4 shortleaf pines in area of Vulcan towersite, Iron County. Trees cut and burned. (Glass, Capps, Sept. 21).

A RHIPICERID BEETLE (Sandalus sp.) - KANSAS - Noted on evergreens at Abilene. (Reading).

NANTUCKET PINE TIP MOTH (Rhyacionia frustrana) - ALABAMA - Last generation pupated throughout central and northern areas. Damaged local road planting of pines 4-6 years old in Autauga County. Damage to tops heavy; 2-6 pupae per tip noted. (McQueen).

ZIMMERMAN PINE MOTH (Dioryctria zimmermani) - MICHIGAN - Larvae heavy in pine plantation in Marquette County. (Nyquist, Newman).

PINE NEEDLE SCALE (Phenacaspis pinifoliae) - MISSOURI - Infested pine in nursery in Columbia, Boone County. (Brown). MARYLAND - Heavy on large white pine at University Park, Prince Georges County. (U. Md., Ent. Dept.).

FALL CANKERWORM (Alsophila pometaria) - NORTH DAKOTA - First females of season observed at Fargo; initial emergence followed closely that of past 2 years. (Frye, Oct. 8). MICHIGAN - Females active in Ingham County. (Hoffman, Oct. 13).

FALL WEBWORM (Hyphantria cunea) - OKLAHOMA - Damage continues in many areas. (Okla. Coop. Sur.).

VARIABLE OAK LEAF CATERPILLAR (Heterocampa manteo) - KANSAS - Large numbers noted on pin oaks and on some bur oaks west of Wichita. (Reading).

UGLY-NEST CATERPILLAR (Archips cerasivoranus) - MISSOURI - Infested northern red oak sapling in House Spring area, Jefferson County. (Gass, Capps, Sept. 11).

A SWALLOWTAIL BUTTERFLY - UTAH - Larvae defoliated ash trees at Ogden, Weber County, from mid-September into October. (Fronk, Knowlton).

ARMORED SCALES - VIRGINIA - Lepidosaphes ulmi (oystershell scale) infested Chinese chestnut in home yard in Montgomery County. (Helper, Oct. 7). Chrysomphalus bifasciculatus infested holly in Hampton; det. by S. P. Yang and M. Kosztarab. (Isakson). FLORIDA - All stages of Unaspis citri infested and severely damaged leaves of southern magnolia in nursery at Lake Monroe, Seminole County. (McLeod, Oct. 8).

TULIPTREE SCALE (Toumeyella liriodendri) - SOUTH CAROLINA - Infested poplar in Lancaster; controls effective. (Nettles et al., Oct. 12).

APPLE GRAIN APHID (Rhopalosiphum fitchii) - WISCONSIN - Winged forms noted on Russian-olive. (Wis. Ins. Sur.).

ASIATIC OAK WEEVIL (Cyrtopistomus castaneus) - MISSOURI - Delimiting survey October 12-14 based primarily on adult feeding damage indicates pest present in area approximately 23 by 10 miles along Interstate 44 (U.S. 66) between Doolittle, Phelps County, and Waynesville, Pulaski County. Pulaski County is a new county record. (Houser, Gass).

LOCUST BORER (Megacyllene robiniae) - OKLAHOMA - Adults heavy on black locust trees in Mayes County. (Okla. Coop. Sur.).

ELM LEAF BEETLE (Galerucella xanthomelaena) - UTAH - Caused light damage to elms at Tooele and Erda, Tooele County. (Knowlton).

TEA SCALE (Florinia theae) - VIRGINIA - Infested camellias in Hampton; det. by S. P. Yang and M. Kosztarab. (Isakson). FLORIDA - All stages localized and severely damaging leaves of camellia in nursery at Sanford, Seminole County. (McLeod, Oct. 5).

BLACK THREAD SCALE (Ischnaspis longirostris) - FLORIDA - Severely damaged leaves of palm (Chamaedorea erumpens) in nursery at Miami, Dade County. (Sloan, Oct. 6).

FLORIDA WAX SCALE (Ceroplastes floridensis) - SOUTH CAROLINA - Infested 2 acres of ornamental plants; hemlock, camellias and hollies involved. Controls used on many plants in Anderson. (Nettles et al., Oct. 12).

HEMISPHERICAL SCALE (Saissetia hemisphaerica) - FLORIDA - All stages caused light to severe damage of birdnest fern in nursery at Apopka, Orange County. (Musgrove, Oct. 5).

COTTONY-CUSHION SCALE (Icerya purchasi) - TEXAS - Locally heavy on pittosporum in Arlington. (Gray).

A MEALYBUG (Geococcus coffeae) - FLORIDA - Recently found on potted citrus seedlings in greenhouse and screenhouse and on boxorange outside of greenhouse at Winter Haven, Polk County. Species first discovered in State at Apopka, Orange County, in 1958. Known in 13 areas of Orange County on 13 genera of plants. Controls underway for next 2 months. (Fla. Coop. Sur.).

APHIDS - WASHINGTON - Prociphilus venafuscus unusually abundant on winter host (green ash) at Pullman, Whitman County. (Johansen). IDAHO - Alates, probably Eriosoma rileyi and Cornaphis spp., heavy on bark of elms at Grangeville. (Cook). Heavy flight of probably Prociphilus venafuscus observed in Moscow area, Latah County, during past 2 weeks (Portman). UTAH - Woolly species extremely numerous on European beech and light on scarlet beech at Logan, Cache County. Periphyllus lyropictus (Norway-maple aphid) moderately numerous at Logan. (Knowlton). Lachnus salignus extremely abundant on weeping willow bark on many trees at Ogden, Weber County, (Fronk, Knowlton). L. salignus noted on some trees in Tooele, Tooele County, and about Salt Lake City, Salt Lake County. (Knowlton). FLORIDA - Cerataphis variabilis adults severely damaged MacArthur cluster palm in nursery at Miami, Dade County. (Denmark, Oct. 7).

A NOCTUID MOTH (Prodenia dolichos) - FLORIDA - Larvae caused light to severe damage to leaves of Philodendron cordatum and Nephthytis sp. in nursery at Apopka, Orange County. (Musgrove, Oct. 5).

IMPORTED CABBAGEWORM (Pieris rapae) - NEVADA - Larvae medium on Russian knapweed in greenhouse in Reno, Washoe County. (Arnett, Lauderdale).

ORANGE-DOG (Papilio cresphontes) - TEXAS - Larvae noted on ornamental citrus in Travis County. (Thompson).

SPIDER MITES - NEVADA - Ranged light to heavy on arborvitae in Lovelock, Pershing County. (Ferraro, Martinelli).

INSECTS AFFECTING MAN AND ANIMALS

MOSQUITOES - LOUISIANA - Larval collections by Jefferson Parish Department of Mosquito Control, week ending October 15, yielded Aedes sollicitans (salt-marsh mosquito), Anopheles bradleyi, A. crucians, A. punctipennis, A. quadrimaculatus (common malaria mosquito), Culex erraticus, C. pipiens quinquefasciatus (southern house mosquito), C. restuans, C. salinarius, Psorophora confinnis, Orthopodomyia signifera and Uranotaenia sapphirina. Culex salinarius predominant in light trap collections. Adult population showed sharp increase in Grand Isle area. (Stokes). TEXAS - Aedes sollicitans predominant species in southern Jefferson County; however, specimens taken to northern county line. A. taeniorhynchus occasionally more numerous than A. sollicitans. Large numbers of

A. vexans in Beaumont area. Psorophora confinnis, Anopheles crucians and Uranotaenia sapphirina taken in all areas of county. A. quadrimaculatus and Uranotaenia lowii occurred only in southern Beaumont area. (Thompson, Sept. Rpt.). ARKANSAS - Mosquitoes continue numerous in eastern area; residents indicate numbers greater than usual since Hurricane Betsy. (Ark. Ins. Sur.). OKLAHOMA - Heavy adult populations of several species annoying in Bryan County. (Okla. Coop. Sur.). ALABAMA - Heavy and widespread outbreak occurred in Beatrice and Monroeville, Monroe County, following excessive rains from 2 previous hurricanes; municipal officials requested assistance in control efforts. (Lemons).

HORN FLY (Haematobia irritans) - OKLAHOMA - Ranged up to 750 per head on bulls and averaged 30 per head on steers and 50 per head on cows in Payne and Noble Counties. Averaged 250 per head on cows in Craig County; 50 per head on steers in Tulsa County. Heavy in Comanche County; moderate in Bryan and Hughes Counties. (Okla. Coop. Sur.). UTAH - Continues numerous on cattle herd at Erda, Tooele County. (Knowlton).

FACE FLY (Musca autumnalis) - UTAH - Collected at Erda, Tooele County. (Knowlton, Hanson). This is a new county record. (ARS).

BLACK HORSE FLY (Tabanus atratus) - OKLAHOMA - Noted occasionally on cattle; averaged less than 1 per head in Atoka County. (Okla. Coop. Sur.).

COMMON CATTLE GRUB (Hypoderma lineatum) - OKLAHOMA - Light numbers noted on cows in Hughes County; this is first report of season. (Okla. Coop. Sur.).

WASPS - UTAH - Polistes fuscatus stung boy at Logan, Cache County; very numerous in county about windows of homes and other buildings. Yellow jackets and other wasps troublesome with some children stung; particularly noticable around weeping willows heavily infested with Lachnus salignus in Tooele, Tooele County. (Knowlton). KANSAS - Large numbers of Polistes spp. entering homes in Riley County; more troublesome than in past. (Knutson). MARYLAND - Yellow jackets very annoying on several properties in Laurel area of Prince Georges County. Polistes spp. abundant around several homes in Carrollton, Prince Georges County. (U. Md., Ent. Dept.).

PUSS CATERPILLAR (Megalopyge opercularis) - ARIZONA - Causing concern to homeowners in Huachuca City and Sierra Vista areas of Cochise County. Stings to children and adults common; some defoliation of Chinese elm and mulberry trees observed. (Ariz. Coop. Sur.).

TICKS - OKLAHOMA - Amblyomma americanum (lone star tick) light (1-2 per 10 head) on cattle in Atoka County. Ixodes scapularis (black-legged tick) averaged 9 nymphs per head and Dermacentor albipictus (winter tick) averaged 12 larvae and 5 nymphs per head on same cattle. Rhipicephalus sanguineus (brown dog tick) heavy on dogs and in homes in Payne County. (Okla. Coop. Sur.). MARYLAND - R. sanguineus noted in home at Elkton, October 4. (U. Md., Ent. Dept.).

CATTLE LICE - UTAH - Infested herd of cattle rubbing in Tooele County. (Knowlton). Cattle lice and cattle grub control using newer systemics underway in several beef herds in Millard County; substantial control campaign planned for Kanosh area. (Knowlton, Hall).

BLACK WIDOW SPIDER (Latrodectus mactans) - ARIZONA - Heavy fall hatch causing concern to homeowners in Casa Grande area, Pinal County. (Ariz. Coop. Sur.). MARYLAND - Male specimen found in home at Glen Burnie, Anne Arundel County. (U. Md., Ent. Dept.).

HOUSEHOLD AND STRUCTURAL INSECTS

BOXELDER BUG (Leptocoris trivittatus) - WYOMING - Migrations into homes in Goshen and Laramie Counties causing concern. (Marks). VIRGINIA - Entering homes and causing concern in Clifton Forge. (Isakson). Very few complaints in Frederick County. (Hill). MARYLAND - Numerous about home in Prince Georges County. (U. Md., Ent. Dept.).

LARGE MILKWEED BUG (Oncopeltus fasciatus) - KANSAS - Large numbers noted throughout northeast district; many invading homes. (Simpson).

SAW-TOOTHED GRAIN BEETLE (Oryzaephilus surinamensis) - UTAH - Food insects, including Dermestes lardarius (larder beetle), flour moths and this species, common in Weber County homes. (Stenquist, Knowlton). VIRGINIA - O. surinamensis and Lasioderma serricorne (cigarette beetle) adults abundant in kitchen, bath and utility room of home in Chesterfield County. (Isakson, Jones).

ELM LEAF BEETLE (Galerucella xanthomelaena) - VIRGINIA - Entering homes to hibernate in Frederick County. (Hill). OKLAHOMA - Continues to enter homes in many areas of State. (Okla. Coop. Sur.).

AN ANOBIID BEETLE (Tricorynus herbarius) - NEBRASKA - Damaged imported books in Lincoln, Lancaster County. (Roselle).

STRAWBERRY ROOT WEEVIL (Brachyrhinus ovatus) - OHIO - Continues to enter homes and other buildings in Cuyahoga County. (Calderwood, Delaplane).

STORED-PRODUCT INSECTS

LESSER GRAIN BORER (Rhizopertha dominica) - COLORADO - Infested commercial grain sample stored at Colorado State University, Fort Collins, Larimer County. Sample collected in Denver during spring of 1965. (Colo. Ins. Sur.).

INDIAN-MEAL MOTH (Plodia interpunctella) - MISSOURI - Found near sacks of wheat previously fumigated in Pemiscot County. (Downing).

CUCUJID BEETLES - IDAHO - Heavy mixed population of Cryptolestes pusillus (flat grain beetle) and Oryzaephilus surinamensis (saw-toothed grain beetle) noted in farm storage of chopped grain dairy feed at Blackfoot, Bingham County. (Weston).

Stored-product Insects in Oklahoma - Farm-stored wheat checked in Mayes County heavily infested with Tenebroides mauritanicus (cadelle); moderate numbers of Sitophilus oryzae (rice weevil) and Tribolium confusum (confused flour beetle), and light numbers of Plodia interpunctella (Indian-meal moth) and psocids also noted. (Okla. Coop. Sur.).

BENEFICIAL INSECTS

A DAMSEL BUG (Nabis sp.) - WYOMING - Adults averaged 18 per 100 sweeps in alfalfa Goshen and Laramie Counties. (Marks).

A BRACONID (Aphidius smithi) - IDAHO - Reared from mummified pea aphid (Acyrtosiphon pisum) collected in Butte County August 5. (York).

Beneficial Insects in Cotton in California - Lacewings, big-eyed bugs, melyrid beetles (Collops spp.) and anthocorid bugs abundant in some fields in Imperial County. (Campbell, Oct. 10).

MISCELLANEOUS INSECTS

IMPORTED FIRE ANT (Solenopsis saevissima richteri) - FLORIDA - Adults taken in new township at Sarasota, Sarasota County. (Frederic, Lynch, Oct. 6).

GIANT HORNET (Vespa crabro germana) - INDIANA - Collected for the first time in Brown and Monroe Counties. (Huber).

SALT-MARSH CATERPILLAR (Estigmene acrea) - OKLAHOMA - Large numbers present in many areas of State. Caused some crop damage in western area. Commonly seen crossing highways. (Okla. Coop. Sur.).

MONARCH BUTTERFLY (Danaus plexippus) - MARYLAND - Northwestern flight observed October 11 along Potomac River shore near Point Lookout, St. Marys County. (U. Md., Ent. Dept.).

A HAIRY FUNGUS BEETLE (Typhaea stercorea) - MARYLAND - Adults emerged from fire-damaged wood beams on property in Baltimore. (U. Md., Ent. Dept., Oct. 4).

CORRECTIONS

CEIR 15(6): 78 Third paragraph, line 9 - ... a FLASE CHINCH BUG (Nysius kingbergi) ... should read a FALSE CHINCH BUG...

CEIR 15(7): 94 - Cotton Insects - Lines 13 and 14 should read "... an aggregate of over 1,000,000 acres will be sprayed for cotton jassid, whiteflies and bollworms."

CEIR 15(16): 333 (Detection) and 370 - Paragraph 4, WESTERN DRYWOOD TERMITE (Incisitermes minor). Change location to Nye County. This is not a new county record. Previously reported from Nye County, Nevada, in CEIR 14(17): 375.

CEIR 15(17): 403 - A CHALICID (Diversinervus elegans) should read A CHALCID.

CEIR 15(21): 524 - Paragraph 6, line 6-"P. boninsis has also been taken on native bunch grass (Enagrostis variabilis)... ." Should read, Pseudococcus boninsis ... (Enagrostis variabilis)... ."

CEIR 15(37): 1060 - Second paragraph, line 4-Prosapis bicincta should read Prosapia bicincta.

CEIR 15(41): 1166 - CENTIPEDES - WISCONSIN - Should read: MILLIPEDS - WISCONSIN.

CEIR 15(42): 1194 - PUNCTURE-VINE WEEVILS (Microtharus spp.) ... M. larenyi should read M. lareynii.

ADDITIONAL NOTES

NEW MEXICO - ALFALFA CATERPILLAR (Colias eurytheme) adults abundant in most Lea County alfalfa; larvae ranged 0-3 per 25 sweeps in fields checked. (Nielsen). Light to moderate infestations noted in alfalfa in southern Eddy County. THREE-CORNERED ALFALFA HOPPER (Spissistilus festinus) adults ranged 3-5 per 25 sweeps in alfalfa checked in southern Eddy County, and adult STINK BUGS ranged 2-3 per 25 sweeps in same area. (Kloepfer, Harrison). Light infestation of a SCUTELLARID BUG found in field of alfalfa near Lovington, Lea County; adults ranged 1-4 per 25 sweeps. PEA APHID (Acyrtosiphon pisum) ranged very light to light in alfalfa checked in Lea County. (Nielsen).

STATUS OF THE SCREW-WORM (*Cochliomyia hominivorax*) IN THE SOUTHWEST

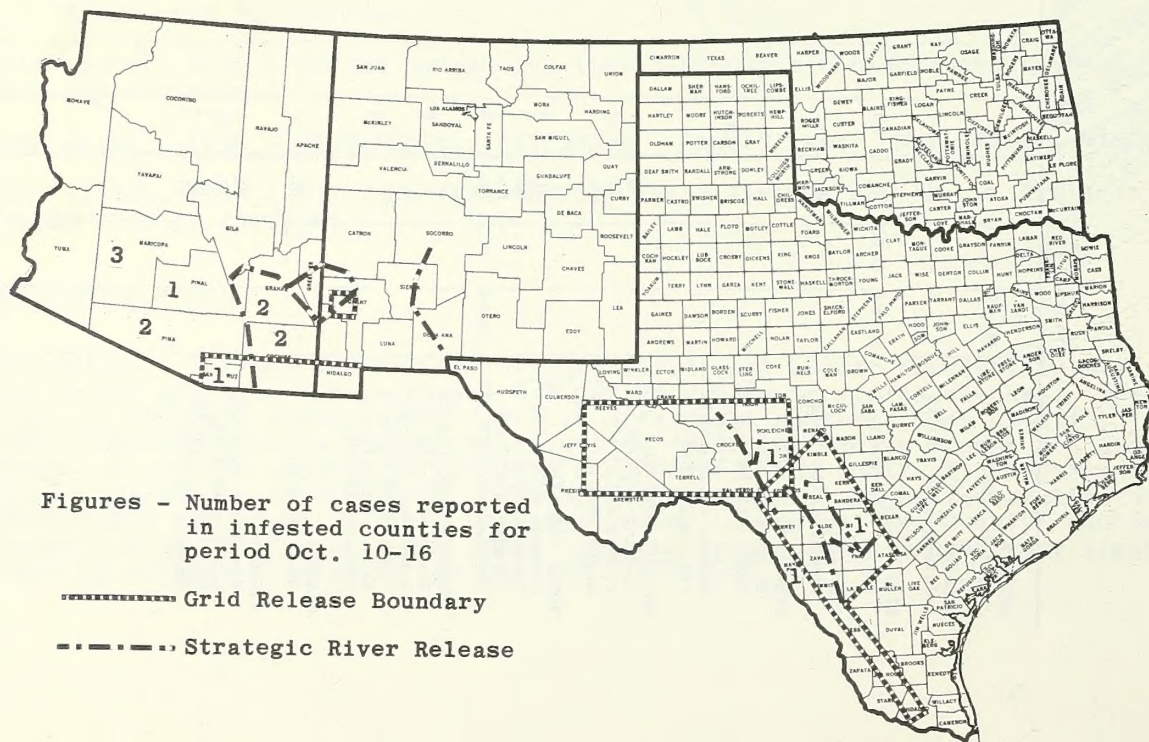
During the period October 10-16, a total of 14 cases was reported in the Southwestern Eradication Area by States and counties as follows: TEXAS - one each in Maverick, Sutton and Medina; Arizona - Maricopa 3, Cochise, Graham and Pima 2 each; Santa Cruz and Pinal 1 each. The Republic of Mexico reported 126 cases: Territorio sur de Baja California 25, Coahuila 5, Tamaulipas 3, Sonora 42, Baja California Norte 1, Chihuahua 47, Nuevo Leon 3. Sterile screw-worm flies released: Texas 19,214,250, New Mexico 5,292,000, Arizona 13,572,000, Mexico 64,338,000.

Year	Positive Cases		Negative Cases		Ratio of Positive Cases to 100 Cases Negative	
	Current	Cumulative	Current	Cumulative	Current	Cumulative
Table 1. Comparison of specimens reported during corresponding week in 1963 and 1964 in Southwestern Eradication Area. (1965 area figures include cases reported from Arizona and/or California; 1964 figures reflect those from the 5-State area).						
1963	411	4895	234	5722	175.64	85.54
1964	11	128	110	4947	10.00	2.58
1965	14	814	52	4077	26.92	19.96

Table 2. Comparison of specimens reported during corresponding week and in a corresponding area in 1964 in the United States-Mexico Barrier Zone.*						
1964	249	3165	57	1639	436.84	193.10
1965	138	4469	30	1881	460.00	237.58

Feasibility Survey - During this period, 168 cases were identified in Mexico south of the Barrier Zone, as follows: San Luis Potosi 10, Oaxaca 5, Jalisco 19, Veracruz 25, Mexico 2, Hidalgo 1, Chiapas 2, Nayarit 8, Morelos 2, Durango 74, Guerrero 6, Michoacan 4, Yucatan 8.

* Barrier Zone - Area in which screw-worm eradication operations are being carried out in an effort to prevent establishment of self-sustaining screw-worm populations in the United States. (Anim. Health Div.)



Figures - Number of cases reported in infested counties for period Oct. 10-16

----- Grid Release Boundary

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